An Oshkosh Corporation Company

Service and Maintenance Manual

Model

1850SJ

PVC 2007

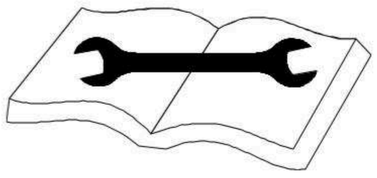
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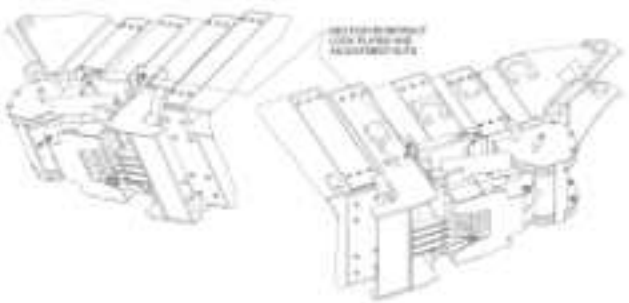
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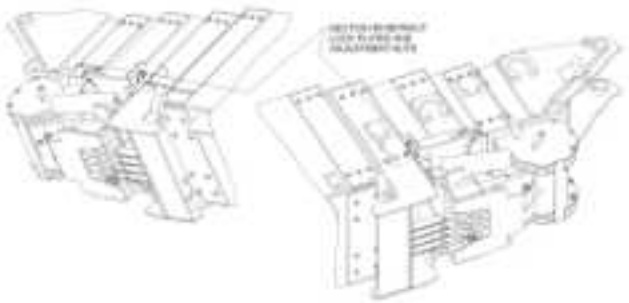
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e. Retract the boom assembly such that the platform moves 2 to 3 feet (0.6m-0.9m) from the previous extended position in Boom Section #3 Positioning, Step 4c.

f. To remove slack resulting from the adjustment in Step 3d, tighten the Section #4 Extend Adjustment Nuts shown below until they contact the rope mount plate.



g. Go to Step 5.

5. Fully retract the boom sections.

6. Verify that the exposed boom section dimensions meet the dimension and tolerance of Figure 4-42..

   a. If Section #5 still does not fall within the dimension and tolerance of Figure 4-42., repeat the steps outlined in Boom Section #5 Repositioning.

   b. If Section #5 does fall within the dimension and tolerance of Figure 4-42., proceed to Wire Rope Tensioning Procedure.

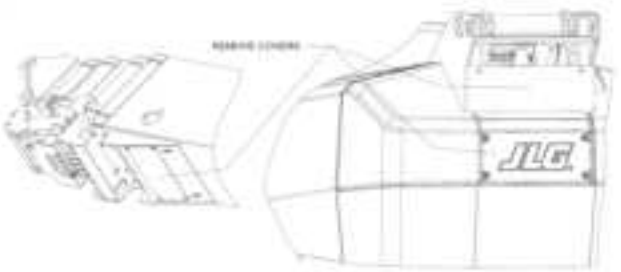
Wire Rope Tensioning Procedure

NOTE: *Repeat Wire Rope Tensioning Procedure only as necessary to achieve proper tension.*

Verification of the rope tension should be determined by proper deployment function of the boom assembly and by the dimensions and tolerances shown in Figure 4-42..

If the boom sections have been properly positioned but there is not enough adjustment travel remaining on a wire rope to achieve proper torque, the service life of the rope has been consumed. Do not continue with the remainder of this procedure. Replace all wire ropes and sheaves.

1. Remove any covers necessary to access the wire rope adjustment nuts.



2. Remove lock plates and nylon collar nuts from wire rope adjustment studs.

3. Position the boom so that it is horizontal within +/- 5º, and not supported by the boom rest.

4. Extend the boom assembly such that the platform moves 4 to 5 feet (1.2m-1.5m) from the fully retracted position. The purpose of this step is to position the boom sections such that the ropes to be tensioned are not under load. If the extending boom reaches end of stroke and then automatically retracts a small amount, the ropes may still be under load. In such case, the following additional steps are necessary:

   a. Note where the boom reached end of stroke.

   b. Retract 3 to 4 feet (1m-1.3m).

   c. Extend the boom, stopping just before end of stroke is reached.



5. Using tool, JLG PN 1001162217, torque Section #3 Retract Adjustment Nuts to 38 ft-lb (51.5 Nm), alternat-

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Table 5-34. Electrical Troubleshooting

Item	Description	Action
Control operates pump in one direction only	Control coil failure.	Measure resistance at coil pins. Resistance should be 14.2W (24V) or 3.66W (12V) at 20°C [70° F]. Replace coil.
No pump function	No power to controller.	Restore power to controller.
Erratic pump function	Electrical connection to pump is bad.	Disconnect connection, check wires, reconnect wires.
Erratic or no machine function	External controller malfunction or hydraulic system problem.	Verify external controller problem using spare controller. Replace controller. Check hydraulic system fluid level/pressures/filters/etc. Fix hydraulic system problems.

Table 5-35. Neutral Difficult or Impossible to find

Item	Description	Action
Input to pump control	Input to control module is operating improperly.	Disconnect input and check to see if pump comes back to neutral. If Yes, input fault, replace/repair external controller. If No, go to next step.
Pump control neutral	Neutral set improperly.	Shunt servo gauge ports M4 and M5 together with external hose and see if pump comes back to neutral. If Yes: control neutral improperly set. If no: balance swashplate (see Mechanical neutral adjustment). If you still cannot set neutral, replace control.

Table 5-36. System Operating Hot

Item	Description	Action
Oil level in reservoir	Insufficient hydraulic fluid will not meet cooling demands of system.	Fill reservoir to proper level.
Heat exchanger	Heat exchanger not sufficiently cooling the system.	Check air flow and input air temperature for heat exchanger. Clean, repair or replace heat exchanger.
Charge pressure	Low charge pressure will overwork system.	Measure charge pressure. Inspect and adjust or replace charge relief valve. Inspect charge pump. Repair or replace charge pump.
Charge pump inlet vacuum	High inlet vacuum will overwork system. A dirty filter will increase the inlet vacuum. Inadequate line size will restrict flow.	Check charge inlet vacuum. If high, inspect inlet filter and replace as necessary. Check for adequate line size, length or other restrictions.
System relief pressure settings	If the system relief valves are worn, contaminated, or valve settings are too low, the relief valves will be overworked.	Verify settings of high pressure relief valves and replace valves as necessary.
System pressure	Frequent or long term operation over system relief setting will create heat in system.	Measure system pressure. If pressure is too high, reduce loads.

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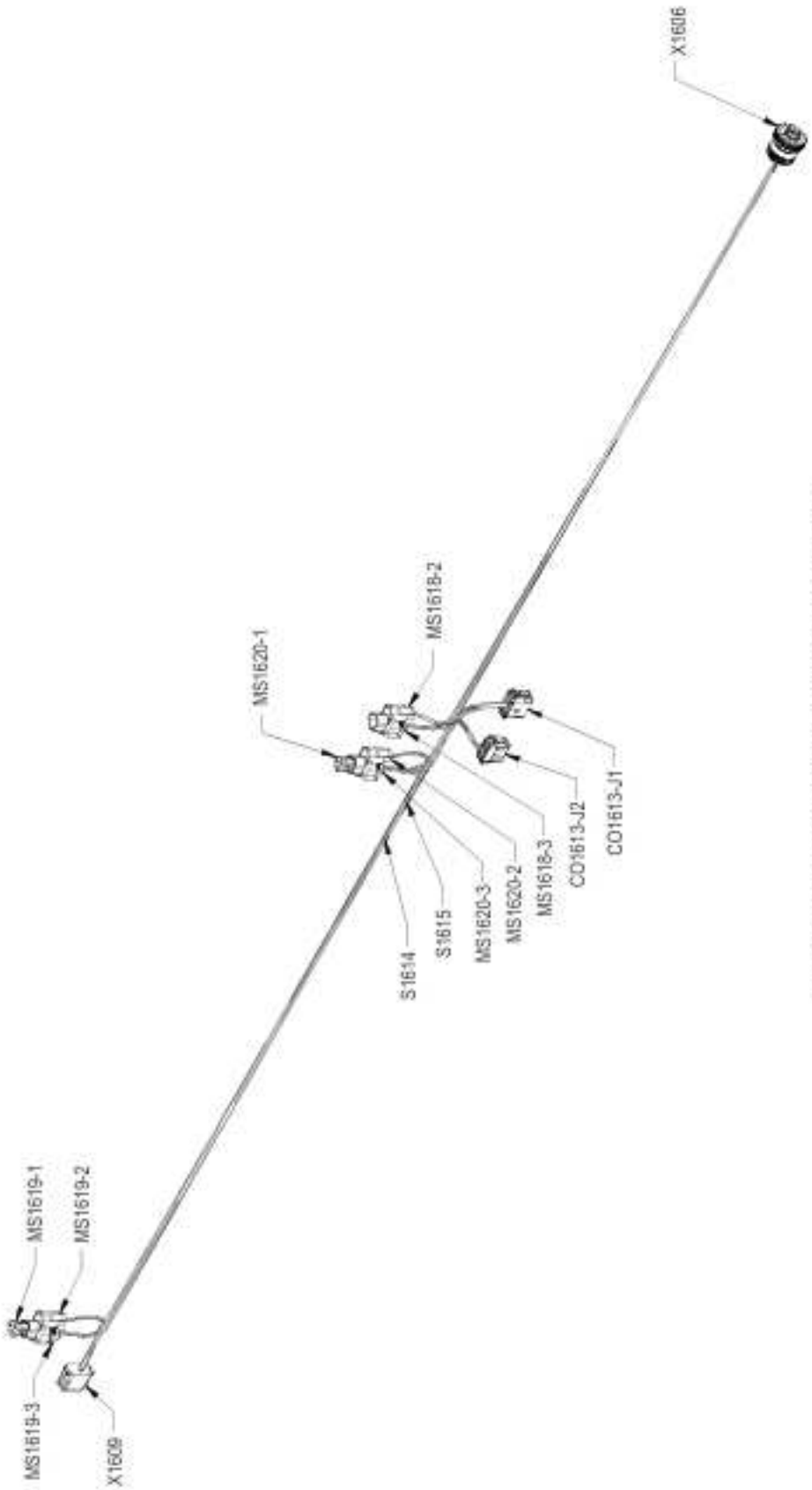
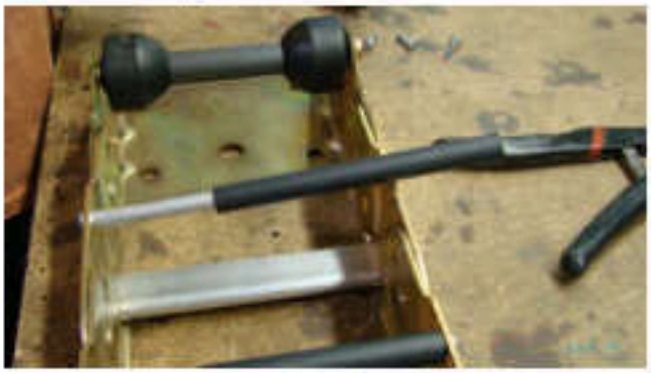
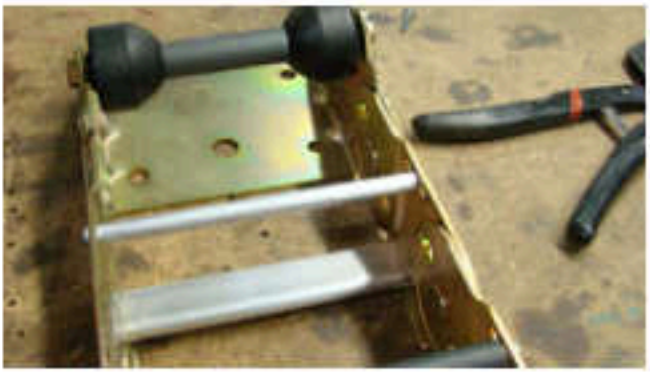


Figure 7-18. Telematics Gateway Harness - Sheet 1 of 3

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5. Slide the poly roller off of the round bar.





6. Hold the round bar to remove the other screw.

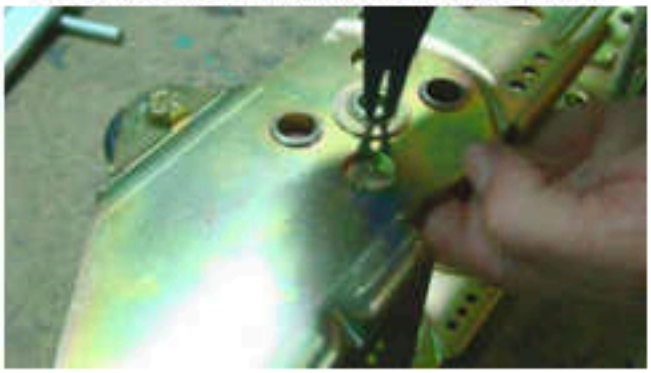


7. Slide the flat bar out.





8. Remove the snap ring from one side of the bracket.



9. Remove the snap ring from the other side of the bracket.



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25. Install the fixed sheave shields, and deflector sheaves using the retaining bolts and washers. Coat the bolts with Medium Strength Threadlocking Compound before installation. Torque the bolts to 28 ft.lbs. (38 Nm).



26. Coat the bolts with Medium Strength Threadlocking Compound and install the section 5 retract ropes to section 3 using the nuts, keeper plates, bolts, and washers.



27. Coat the bolts with Medium Strength Threadlocking Compound and install the section 5 extend ropes to section 3 using nuts, keeper plates, bolts, and washers.



28. Coat the bolts with Medium Strength Threadlocking Compound and install the front bottom wear pads to section 3 using washers, bolts, and shims. Torque the bolts to 43 ft.lbs. (58 Nm)



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